## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1 - 24. (Canceled)

25. (Currently amended) A memory for a signal processor, comprising:

a data structure, responsive to a control input representing a selection of a portion of an[[,]] image stored in said memory, wherein said selection is chosen across a field of view, said data structure representing an orthogonal set of transformation algorithms; and

a buffer memory adapted to store digital image data for transformation; wherein said data structure transforms data according to the following equations:

X= 
$$\frac{R[uA - vB + mRsinβsin∂]}{\sqrt{(u^2 + v^2 + m^2R^2)}}$$

Y= 
$$\frac{R[uC - vD - mRsinβcos∂]}{\sqrt{(u^2 + v^2 + m^2R^2)}}$$

## where:

 $A = (\cos\theta\cos\partial - \sin\theta\sin\partial\cos\beta)$ 

B = (sinθcos∂ + cosθsin∂cosβ)

 $C = (\cos\theta\sin\partial + \sin\theta\cos\partial\cos\beta)$ 

 $D = (\sin\theta\sin\theta - \cos\theta\cos\theta\cos\beta)$ 

## and where:

R = radius of the image circle

 $\beta$  = zenith angle

 $\partial$  = Azimuth angle in image plane

 $\theta$  = object plane rotation angle

m = Magnification

u,v = object plane coordinates

x,y = image plane coordinates.

26 - 79. (Cancelled)